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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,136	03/02/2004	Jacky Seiller	S1022.81126US00	3182
23628 7590 05/03/2007 WOLF GREENFIELD & SACKS, P.C. 600 ATLANA CONTROL OF THE PROPERTY OF T			EXAMINER	
			MITCHELL, JAMES M	
BOSTON, MA 02210-2206			ART UNIT	PAPER NUMBER
			2813	
			MAIL DATE	DELIVERY MODE
		•	05/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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Alexandria, Virginia 22313-1450

ATTORNEY DOCKET NO. FIRST NAMED INVENTOR / FILING DATE **APPLICATION NO./** PATENT IN REEXAMINATION CONTROL NO. S1022.81126US00 SEILLER ET AL. 10791136 3/2/2004

WOLF GREENFIELD & SACKS, P.C. 600 ATLANTIC AVENUE BOSTON, MA 02210-2206

EXAMINER

James M., Mitchell

ART UNIT PAPER

2813

20070424

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

The notice of non-compliant drawings filed August 18, 2006 crossed in the mail with applicant's submission of corrected drawings filed August 18, 2006. As such, applicant's period for reply is restarted from the mailing of the attached Office Action.

Ex. Mitchell, JOM

		Application No.	Applicant(s)				
Office Action Summary		10/791,136	SEILLER ET AL.				
		Examiner	Art Unit				
		James M. Mitchell	2813				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 18 Au	ugust 2006.					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or						
Applicati	on Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 14 August 2006 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a) accepted or b) objected of drawing(s) be held in abeyance. See tion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ter No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do State Notice of Informal F	ate				

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DETAILED ACTION

This office action is in response to applicant's drawing submission filed August
 2006.

Drawings

2. The drawings were received on August 18, 2006. These drawings are acceptable.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Sahara et al. (U.S. 2002/0063340).
- 5. Sahara (Fig. 1, 4C) discloses:
- (cl. 1) an integrated circuit comprising one or several metallization levels, metal conductive strips (23, 25) and metal contact pads (22) being formed on a last metallization level, the last level being covered with a passivation layer (17) in which are formed openings (17A; Fig. 4B) above the contact pads, wherein a thickness of the pads, at least at a level of their portions not covered by the passivation layer, is smaller than the thickness of said conductive strips (e.g. depression in pad portion, 22 not covered; Fig. 4C);

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(cl. 2) at least one conductive strip forms a coil (25; Fig.1);

(cl. 4) the last metallization level is formed on an insulating layer (14; Par. 0082).

- 6. With respect to the intended use limitation of claim 3 that a conductive strip forms a supply network, the prior art forms the same structure as claimed and is thus capable of performing the intended use. As such, the intended use does not patentability distinguish the claimed invention. See e.g. *Ex parte Masham*, 2 USPQ2d 1647 (1987) (the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations).
- 7. With respect to the product by process limitation of claim 4 that each contact pad is "formed of a conductive layer... laid on the insulating layer," the prior art (e.g. pads) forms the same structure as claimed. "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 10. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sahara al. (U.S. 2002/0063340) in combination with Tong et al (U.S. 6,743,707).
- 11. Sahara discloses the elements stated in paragraphs 5-7 of this office action and further that its pad may be formed of copper and like material (Par. 0087), but does not explicitly disclose that its pads are made from aluminum.
- 12. However, Tong teaches copper and aluminum as like/equivalent conductive materials for pads Col. 3, Lines 13-14).
- 13. It would have been obvious to one of ordinary skill in the art to form the pad of Sahara with aluminum as taught by Tong in order to provide a like material.
- 14. Moreover, the use of aluminum for bonding is known in the art at the time the invention was invented as evidenced by Tong. As such, the selected material would have been obvious to one of ordinary skill one art, since it has been held that the selection of a known material based on its suitability for its intended use supported a

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prima facie obviousness determination. <u>Sinclair & Carroll Co. v. Interchemical</u> Corp., 325 U.S. 327, 65 USPQ 297 (1945). See M.P.E.P 2144.07

15. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (U.S. 6,358,831) in combination with Huang et al (U.S. 6,815,324).

Liu (Fig. 1-2A) discloses

(cl. 1) depositing a metal layer (25) on a substrate (22); etching the metal layer (Fig. 1-2A) to form metal portions and said conductive strips (conductive paths, not labeled; Fig. 2A); covering the substrate, the conductive strips, and the metal portions with a passivation layer (29); forming openings (24) in the passivation layer above the metal portions and therefore removing portion of the protection layer.

Liu does not disclose partially etching the metal portions to decrease their thickness to obtain said contact pads.

However, Huang (Fig. 6-7) teaches partially etching the metal portions to decrease their thickness to obtain said contact pads.

It would have been obvious to one of ordinary skill in the art to incorporate a partial etching step to a metal portion of Liu in order to remove the depression in metal regions that lead to poor contacts as taught by Huang (Col. 5, Lines 11-16).

With respect to preamble that its method is for forming IC of claim 1, it is not limiting, because it does not impart a manipulative difference in the method. See M.P.E.P 2111.02 [R-3].

Response to Arguments

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Applicant's arguments filed July 24, 2006 with respect to claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Mitchell whose telephone number is (571) 272-1931. The examiner can normally be reached on M-F 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ex. Mitchell,/J.[April/28, 2007/